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	APPLICATION NO.	FILING DATE	FIRST NAMED IN	IVENTOR		ATTORNEY DOCKET NO.
	09/502,698	02/11/00	FUNAHASHI		S	06501-056001
Γ			コ			EXAMINER
·			HM12/0425	•		·
Janis K. Fraser				MERTZ.	P	
	Fish & Rich	ardson P.C.			ART UNIT	PAPER NUMBER
	225 Frankli Boston MA 0	· · · · · · · · · · · · · · · · · · ·			1646 DATE MAILED:	7
						04/25/01

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

Application No.

## Office Action Summary

09/502,698

Applicant(s)

Funahashi et al.

Examiner

Art Unit

		Prema Mertz	1646					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
A SHI THE N - Exter af - If the be - If NO co - Failur - Any r								
_	Responsive to communication(s) filed on <u>Feb 1, 20</u> This action is <b>FINAL</b> . 2b)  This action	tion is non-final.						
2a) □ 3) □	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.							
Disposi	Disposition of Claims							
4) 💢	Claim(s) 1-34	is/are	e pending in the application.					
4	la) Of the above, claim(s)	is/ar	e withdrawn from consideration.					
5) 🗆	Claim(s)		is/are allowed.					
6) 🗆	Claim(s)		is/are rejected.					
7) 🗆	Claim(s)							
8) 💢	Claims 1-34							
Application Papers  9) The specification is objected to by the Examiner.								
10)□	The drawing(s) filed on is/are							
11)□ 12)□	The proposed drawing correction filed on The oath or declaration is objected to by the Exam		b)∐ disapproved.					
Priority under 35 U.S.C. § 119  13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).  a) All b) Some* c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).								
Attachm		18) Interview Summary (PTO-413) Paper	· Nois)					
	otice of References Cited (PTO-892) otice of Draftsperson's Patent Drawing Review (PTO-948)	19) Notice of Informal Patent Application	<del></del>					
17) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 20) Other:								
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#### **DETAILED ACTION**

#### Election/Restriction

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
- Group I. Claims 1-5 are drawn to a polypeptide comprising SEQ ID NO:1, classified in Class 530, subclass 350.
- Group II. Claims 1-5 are drawn to a polypeptide comprising SEQ ID NO:2, classified in Class 530, subclass 350.
- Group III. Claims 1-5 are drawn to a polypeptide comprising SEQ ID NO:82, classified in Class 530, subclass 350.
- Group IV. Claims 1-5 are drawn to a polypeptide comprising SEQ ID NO:83, classified in Class 530, subclass 350.
- Group V. Claims 1-5 are drawn to a polypeptide comprising SEQ ID NO:84, classified in Class 530, subclass 350.
- Group VI. Claims 6-23, 25, 32-34 are drawn to a polynucleotide encoding a polypeptide of SEQ ID NO:1, a vector, a host cell and a process for producing a polypeptide, classified in Class 435, subclass 69.1.
- Group VII. Claims 6-23, 25, 32-34 are drawn to a polynucleotide encoding a polypeptide of SEQ ID NO:2, a vector, a host cell and a process for producing a polypeptide, classified in Class 435, subclass 69.1.

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Group VIII. Claims 6-23, 25, 32-34 are drawn to a polynucleotide encoding a polypeptide of SEQ ID NO:82, a vector, a host cell and a process for producing a polypeptide, classified in Class 435, subclass 69.1.

Group IX. Claims 6-23, 25, 32-34 are drawn to a polynucleotide encoding a polypeptide of SEQ ID NO:83, a vector, a host cell and a process for producing a polypeptide, classified in Class 435, subclass 69.1.

Group X. Claims 6-23, 25, 32-34 are drawn to a polynucleotide encoding a polypeptide of SEQ ID NO:84, a vector, a host cell and a process for producing a polypeptide, classified in Class 435, subclass 69.1.

Group XI. Claim 24 is drawn to antibody to the polypeptide of SEQ ID NO:1, classified in Class 530, subclass 387.1.

Group XII. Claim 24 is drawn to antibody to the polypeptide of SEQ ID NO:2, classified in Class 530, subclass 387.1.

Group XIII. Claim 24 is drawn to antibody to the polypeptide of SEQ ID NO:82, classified in Class 530, subclass 387.1.

Group XIV. Claim 24 is drawn to antibody to the polypeptide of SEQ ID NO:83, classified in Class 530, subclass 387.1.

Group XV. Claim 24 is drawn to antibody to the polypeptide of SEQ ID NO:84, classified in Class 530, subclass 387.1.

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Group XVI. Claims 26-31, are drawn to a method of screening for a compound that binds the polypeptide of SEQ ID NO:1, the compound and a gene encoding the compound, classified in Class 435, subclass 7.1.

Group XVII. Claims 26-31, are drawn to a method of screening for a compound that binds the polypeptide of SEQ ID NO:2, the compound and a gene encoding the compound, classified in Class 435, subclass 7.1.

Group XVIII. Claims 26-31, are drawn to a method of screening for a compound that binds the polypeptide of SEQ ID NO:82, the compound and a gene encoding the compound, classified in Class 435, subclass 7.1.

Group XIX. Claims 26-31, are drawn to a method of screening for a compound that binds the polypeptide of SEQ ID NO:83, the compound and a gene encoding the compound, classified in Class 435, subclass 7.1.

Group XX. Claims 26-31, are drawn to a method of screening for a compound that binds the polypeptide of SEQ ID NO:84, the compound and a gene encoding the compound, classified in Class 435, subclass 7.1.

The inventions are distinct, each from the other because of the following reasons:

Inventions I-XV are independent and distinct, each from the other, because they are products which possess characteristic differences in structure and function and each has an independent utility, that is distinct for each invention which cannot be exchanged. The polynucleotides of each of inventions VI-X can be used to make a hybridization probe or can be used in gene therapy as well as

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in the production of the protein of interest. The proteins of inventions I-V can be used as a probe, or used therapeutically or diagnostically, e.g. in screening. The antibodies of inventions XI-XV can be used to obtain the specific polynucleotides of Groups VI-X, respectively, and can also be used in diagnostics, e.g. as a probe in immunoassays. The polynucleotide of Group VI can only be used to obtain the polypeptide of Group I and no other polypeptide and similarly, the polynucleotide of Group VII can only be used to obtain the polypeptide of Group II and no other polypeptide

Inventions VI-X and I-V are related as processes of making and products made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the proteins can be prepared by materially different processes, such as by chemical synthesis, or obtained from nature using various isolation and purification protocols.

Inventions I-V and XVI-XX are related as products and processes of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case each of the products as claimed can be used as antigens in the production of antibodies.

Inventions VI-XV and XVI-XX are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together, or they have different modes of operation, or they

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have different functions, or they have different effects. (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are not disclosed as capable of use together.

Inventions XVI-XX are independent and distinct, each from the other, because the methods are practiced with materially different starting materials for materially different purposes and each method requires a non-coextensive search because of different starting materials and goals.

Having shown that these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and recognized divergent subject matter as defined by MPEP § 808.02, the Examiner has prima facie shown a serious burden of search (see MPEP § 803). Therefore, an initial requirement of restriction for examination purposes as indicated is proper.

Applicant is advised that the response to this requirement to be complete must include an 2. election of the invention to be examined even though the requirement be traversed (37 C.F.R 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).

### Advisory Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prema Mertz whose telephone number is (703) 308-4229. The examiner can normally be reached on Monday-Friday from 8:00AM to 4:30PM (Eastern time).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler, can be reached on (703) 308-6564.

Official papers filed by fax should be directed to (703) 308-4227. Faxed draft or informal communications with the examiner should be directed to (703) 308-0294.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Prema Mertz Ph.D. Patent Examiner Art Unit 1646 April 24, 2001